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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 5	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 7	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 8	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation
NEWS 9	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS 10	SEP 22	DIPPR file reloaded
NEWS 11	SEP 25	INPADOC: Legal Status data to be reloaded
NEWS 12	SEP 29	DISSABS now available on STN
NEWS 13	OCT 10	PCTFULL: Two new display fields added
NEWS 14	OCT 21	BIOSIS file reloaded and enhanced
NEWS 15	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS	NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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FILE 'HOME' ENTERED AT 18:05:19 ON 14 NOV 2003

=> file medline, agricola, caba, caplus, biosis, biotechno, uspatfull
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE 'BIOTECHNO' ENTERED AT 18:05:37 ON 14 NOV 2003
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FILE 'USPATFULL' ENTERED AT 18:05:37 ON 14 NOV 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> S (KODRZYCKI, R? OR KODRZYCKI R?)/AU
L1 18 (KODRZYCKI, R? OR KODRZYCKI R?)/AU

=> s l1 and pinus
L2 3 L1 AND PINUS

=> duplicate remove l2
DUPLICATE PREFERENCE IS 'BIOSIS, USPATFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L2
L3 2 DUPLICATE REMOVE L2 (1 DUPLICATE REMOVED)

=> d l3 1-2 bib

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1
AN 2003:130516 BIOSIS
DN PREV200300130516
TI Particle-mediated conifer transformation.
AU Connett-Porceddu, Marie Bernice [Inventor, Reprint Author]; Becwar, Michael Ryan [Inventor]; **Kodrzycki, Robert John** [Inventor]; Schwuchow, Sarah Grace [Inventor]
CS Summerville, SC, USA
ASSIGNEE: Westvaco Corporation
PI US 6518485 February 11, 2003
SO Official Gazette of the United States Patent and Trademark Office Patents, (Feb. 11, 2003) Vol. 1267, No. 2. http://www.uspto.gov/web/menu/patdata.html. e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 5 Mar 2003
Last Updated on STN: 5 Mar 2003

L3 ANSWER 2 OF 2 USPATFULL on STN
AN 2002:237196 USPATFULL
TI Particle-mediated conifer transformation
IN **Kodrzycki, Robert John**, Summerville, SC, UNITED STATES
Becwar, Michael Ryan, Summerville, SC, UNITED STATES
Connett-Porceddu, Marie Bernice, Summerville, SC, UNITED STATES
Schwuchow, Sarah G., Hollywood, SC, UNITED STATES
PI US 2002129405 A1 20020912
AI US 2001-29360 A1 20011220 (10)
RLI Continuation-in-part of Ser. No. US 1999-318136, filed on 25 May 1999, PENDING
PRAI US 1998-87966P 19980604 (60)
DT Utility

```
FS      APPLICATION
LREP    Daniel B. Reece IV, 5255 Virginia Avenue, Post Office Box 118005,
        Charleston, SC, 29423-8005
CLMN    Number of Claims: 21
ECL     Exemplary Claim: 1
DRWN    1 Drawing Page(s)
LN.CNT 1974


=> d his

     (FILE 'HOME' ENTERED AT 18:05:19 ON 14 NOV 2003)

     FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO, USPATFULL'
     ENTERED AT 18:05:37 ON 14 NOV 2003
L1            18 S (KODRZYCKI, R? OR KODRZYCKI R?)/AU
L2             3 S L1 AND PINUS
L3             2 DUPLICATE REMOVE L2 (1 DUPLICATE REMOVED)

=> s l1 not l2
L4            15 L1 NOT L2

=> duplicate remove l4
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L4
L5             7 DUPLICATE REMOVE L4 (8 DUPLICATES REMOVED)

=> d l5 1-7 ti

L5   ANSWER 1 OF 7     MEDLINE on STN                    DUPLICATE 1
TI   Synthesis of an unusual alpha-zein protein is correlated with the
     phenotypic effects of the floury2 mutation in maize.

L5   ANSWER 2 OF 7  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI   EXPRESSION OF PEROXIDASE AND IAA OXIDASE IS ALTERED DURING GRAVITROPIC AND
     WOUNDING RESPONSE OF LOBLOLLY PINE XYLEM.

L5   ANSWER 3 OF 7  CAPLUS  COPYRIGHT 2003 ACS on STN
TI   Mutations in regulatory loci alter maize zein gene transcription

L5   ANSWER 4 OF 7     MEDLINE on STN                    DUPLICATE 2
TI   The opaque-2 mutation of maize differentially reduces zein gene
     transcription.

L5   ANSWER 5 OF 7  CABA COPYRIGHT 2003 CABI on STN
TI   The opaque-2 mutation of maize differentially reduces zein gene
     transcription.

L5   ANSWER 6 OF 7  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI   GENETIC AND DEVELOPMENT VARIATION IN ZEIN GENE EXPRESSION DURING MAIZE
     ENDOSPERM DEVELOPMENT.

L5   ANSWER 7 OF 7  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI   MAIZE ZEIN GENES AND REGULATED TRANSCRIPTIONALLY AND POST-
     TRANSCRIPTIONALLY.


=> s transformation AND (pine or pinus)
L6         2339 TRANSFORMATION AND (PINE OR PINUS)

=> s l6 and transgenic
L7          778 L6 AND TRANSGENIC

=> s l7 and (pine(s)transformation) or (pinus(s)transformation)
```

L8 537 L7 AND (PINE(S) TRANSFORMATION) OR (PINUS(S) TRANSFORMATION)

=> s l8 and (pine(s)transgenic) OR (pinus(s)transgenic)
L9 256 L8 AND (PINE(S) TRANSGENIC) OR (PINUS(S) TRANSGENIC)

=> s l7 and ((pine(s)transformation) or (pinus(s)transformation))
L10 222 L7 AND ((PINE(S) TRANSFORMATION) OR (PINUS(S) TRANSFORMATION))

=> duplicate remove l10
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO, USPATFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L10
L11 143 DUPLICATE REMOVE L10 (79 DUPLICATES REMOVED)

=> d 1-10 ti

L11 ANSWER 1 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1
TI Protein and cDNA sequences of Eucalyptus grandis and **Pinus** radiata proteins with homology to cell signaling proteins and their use in the modification of plant cell signaling

L11 ANSWER 2 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Methods for **transformation** and regeneration of **Pinus** taeda seedlings by inoculation of shoot apical meristem with Agrobacterium tumefaciens

L11 ANSWER 3 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI **Pinus** radiata and Eucalyptus grandis constitutive or tissue-specific gene promoters and their use for the modification of gene expression

L11 ANSWER 4 OF 143 USPATFULL on STN
TI Nucleic acid sequences to proteins involved in tocopherol synthesis

L11 ANSWER 5 OF 143 USPATFULL on STN
TI Methods of commercial production and extraction of protein from seed

L11 ANSWER 6 OF 143 USPATFULL on STN
TI Methods for improving conifer embryogenesis

L11 ANSWER 7 OF 143 USPATFULL on STN
TI Method of identifying non-host plant disease resistance genes

L11 ANSWER 8 OF 143 USPATFULL on STN
TI Method of transforming intact plants

L11 ANSWER 9 OF 143 USPATFULL on STN
TI Materials and methods for the modification of plant lignin content

L11 ANSWER 10 OF 143 USPATFULL on STN
TI Methods of commercial production and extraction of protein from seed

=> d l11 2 bib

L11 ANSWER 2 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:454500 CAPLUS
DN 139:31788
TI Methods for **transformation** and regeneration of **Pinus** taeda seedlings by inoculation of shoot apical meristem with Agrobacterium tumefaciens
IN Gould, Jean H.; Newton, Ronald J.
PA The Texas A & M University System, USA
SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003048369	A2	20030612	WO 2002-US38428	20021203
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003135891	A1	20030717	US 2002-304441	20021126
PRAI	US 2001-336809P	P	20011204		

=> d l11 11-20 ti

L11 ANSWER 11 OF 143 USPATFULL on STN
TI Phosphonate metabolizing plants

L11 ANSWER 12 OF 143 USPATFULL on STN
TI Genetically modified plants with enhanced resistance to fungal diseases and a method of production thereof

L11 ANSWER 13 OF 143 USPATFULL on STN
TI Telomeres of agrobacterium linear chromosome

L11 ANSWER 14 OF 143 USPATFULL on STN
TI Novel glyphosate N-acetyl transferase (GAT) genes

L11 ANSWER 15 OF 143 USPATFULL on STN
TI Compositions affecting programmed cell death and their use in the modification of plant development

L11 ANSWER 16 OF 143 USPATFULL on STN
TI AP1 amine oxidase variants

L11 ANSWER 17 OF 143 USPATFULL on STN
TI Herbicide resistant plants

L11 ANSWER 18 OF 143 USPATFULL on STN
TI Self-excising polynucleotides and uses thereof

L11 ANSWER 19 OF 143 USPATFULL on STN
TI Process for **transformation** of mature trees of Eucalyptus plants

L11 ANSWER 20 OF 143 USPATFULL on STN
TI Method of identifying non-host plant disease resistance genes

=> d l11 21-30 ti

L11 ANSWER 21 OF 143 USPATFULL on STN
TI Nucleic acid sequences to proteins involved in isoprenoid synthesis

L11 ANSWER 22 OF 143 USPATFULL on STN
TI Particle-mediated conifer **transformation**

L11 ANSWER 23 OF 143 CABA COPYRIGHT 2003 CABI on STN
TI Thin cell layer (TCL) morphogenesis as a powerful tool in woody plant and fruit crop micropropagation and biotechnology, floral genetics and genetic **transformation**
Forestry Sciences, Volume 75.

L11 ANSWER 24 OF 143 MEDLINE on STN DUPLICATE 2
TI **Transgenic** loblolly **pine** (**Pinus** taeda L.) plants expressing a modified delta-endotoxin gene of Bacillus thuringiensis with enhanced resistance to Dendrolimus punctatus Walker and Crypyothelea formosicola Staud.

L11 ANSWER 25 OF 143 MEDLINE on STN DUPLICATE 3
TI Cell differentiation, secondary cell-wall formation and **transformation** of callus tissue of **Pinus** radiata D. Don.

L11 ANSWER 26 OF 143 MEDLINE on STN DUPLICATE 4
TI Additional virulence genes and sonication enhance Agrobacterium tumefaciens-mediated loblolly **pine transformation**.

L11 ANSWER 27 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 5
TI Cloning of a **pine** germin-like protein (GLP) gene promoter and analysis of its activity in **transgenic** tobacco Bright Yellow 2 cells.

L11 ANSWER 28 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Assembly of a cytosolic **pine** glutamine synthetase holoenzyme in leaves of **transgenic** poplar leads to enhanced vegetative growth in young plants

L11 ANSWER 29 OF 143 MEDLINE on STN DUPLICATE 6
TI The production of **transgenic** Scots **pine** (**Pinus** sylvestris L.) via the application of transformed pollen in controlled crossings.

L11 ANSWER 30 OF 143 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Agrobacterium-mediated **transformation** of Sphaeropsis sapinea, the causal agent of **pine** tip blight.

=> d l11 22,24,25,26,29 bib

L11 ANSWER 22 OF 143 USPATFULL on STN
AN 2003:40822 USPATFULL
TI Particle-mediated conifer **transformation**
IN Connett-Porceddu, Marie Bernice, Summerville, SC, United States
Becwar, Michael Ryan, Summerville, SC, United States
Kodrzycki, Robert John, Summerville, SC, United States
Schwuchow, Sarah Grace, Hollywood, SC, United States
PA Westvaco Corporation, New York, NY, United States (U.S. corporation)
PI US 6518485 B1 20030211
AI US 1999-318136 19990525 (9)
PRAI US 1998-87966P 19980604 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: McElwain, Elizabeth F.; Assistant Examiner: Collins, Cynthia
LREP Reece IV, Daniel B., McDaniel, Terry B., Schmalz, Richard L.
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 1897

L11 ANSWER 24 OF 143 MEDLINE on STN DUPLICATE 2

AN 2003045260 MEDLINE
DN 22442400 PubMed ID: 12554726
TI **Transgenic** loblolly **pine** (**Pinus** taeda L.) plants expressing a modified delta-endotoxin gene of Bacillus thuringiensis with enhanced resistance to Dendrolimus punctatus Walker and Crypyothelea formosicola Staud.
AU Tang Wei; Tian Yingchuan
CS North Carolina State University, Forest Biotechnology Group, Centennial Campus, PO Box 7247, Raleigh, NC 27695-7247, USA.. wei_tang@ncsu.edu
SO JOURNAL OF EXPERIMENTAL BOTANY, (2003 Feb) 54 (383) 835-44.
Journal code: 9882906. ISSN: 0022-0957.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200306
ED Entered STN: 20030130
Last Updated on STN: 20030617
Entered Medline: 20030616

L11 ANSWER 25 OF 143 MEDLINE on STN DUPLICATE 3
AN 2003421156 IN-PROCESS
DN 22841719 PubMed ID: 12811558
TI Cell differentiation, secondary cell-wall formation and **transformation** of callus tissue of **Pinus** radiata D. Don.
AU Moller Ralf; McDonald Armando G; Walter Christian; Harris Philip J
CS School of Biological Sciences, The University of Auckland, Private Bag 92019, Auckland, New Zealand.. ralf.moeller@forestresearch.co.nz
SO PLANTA, (2003 Sep) 217 (5) 736-47.
Journal code: 1250576. ISSN: 0032-0935.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20030909
Last Updated on STN: 20031016

L11 ANSWER 26 OF 143 MEDLINE on STN DUPLICATE 4
AN 2003263314 MEDLINE
DN 22674012 PubMed ID: 12789430
TI Additional virulence genes and sonication enhance Agrobacterium tumefaciens-mediated loblolly **pine transformation**.
AU Tang W
CS Department of Biology, Howell Science Complex, East Carolina University, Greenville, NC 27858-4353, USA.. tangw@mail.ecu.edu
SO Plant Cell Rep, (2003 Feb) 21 (6) 555-62.
Journal code: 9880970. ISSN: 0721-7714.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200309
ED Entered STN: 20030606
Last Updated on STN: 20030903
Entered Medline: 20030902

L11 ANSWER 29 OF 143 MEDLINE on STN DUPLICATE 6
AN 2003255137 IN-PROCESS
DN 22663280 PubMed ID: 12779126
TI The production of **transgenic** Scots **pine** (**Pinus** sylvestris L.) via the application of transformed pollen in controlled crossings.
AU Aronen Tuija S; Nikkanen Teijo O; Haggman Hely M
CS Finnish Forest Research Institute, Punkaharju Research Station, Finlandiantie 18, FIN-58450 Punkaharju, Finland.. tuija.aronen@metla.fi

SO TRANSGENIC RESEARCH, (2003 Jun) 12 (3) 375-8.
Journal code: 9209120. ISSN: 0962-8819.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20030604
Last Updated on STN: 20030604

=> d l11 31-40 ti

L11 ANSWER 31 OF 143 MEDLINE on STN DUPLICATE 7
TI Genetic **transformation** of conifers and its application in forest biotechnology.

L11 ANSWER 32 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 8
TI Improved methods for **transformation** and regeneration of genetically modified woody plants

L11 ANSWER 33 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Improved efficiency of regeneration of **transgenic** plants using meristematic or nodal tissue transformed with Agrobacterium

L11 ANSWER 34 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI The promoter of the CCR gene of Lolium perenne for expression of foreign genes in lignified plant tissues

L11 ANSWER 35 OF 143 USPATFULL on STN
TI Methods of creating dwarf phenotypes in plants

L11 ANSWER 36 OF 143 USPATFULL on STN
TI Recovering cryopreserved conifer embryogenic cultures

L11 ANSWER 37 OF 143 USPATFULL on STN
TI Plastid transit peptide sequences for efficient plastid targeting

L11 ANSWER 38 OF 143 USPATFULL on STN
TI Wooden leg gene, promoter and uses thereof

L11 ANSWER 39 OF 143 USPATFULL on STN
TI Gene affecting male fertility in plants

L11 ANSWER 40 OF 143 USPATFULL on STN
TI Soybean plants with enhanced yields and methods for breeding for and screening of soybean plants with enhanced yields

=> d l11 31,32,33,36 bib

L11 ANSWER 31 OF 143 MEDLINE on STN DUPLICATE 7
AN 2003375616 IN-PROCESS
DN 22792072 PubMed ID: 12827443
TI Genetic **transformation** of conifers and its application in forest biotechnology.
AU Tang W; Newton R J
CS Department of Biology, Howell Science Complex, East Carolina University, Greenville, NC 27858-4353, USA.. tangw@mail.ecu.edu
SO Plant Cell Rep, (2003 Aug) 22 (1) 1-15.
Journal code: 9880970. ISSN: 0721-7714.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20030812

Last Updated on STN: 20031002

L11 ANSWER 32 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 8
AN 2002:107939 CAPLUS
DN 136:146159
TI Improved methods for **transformation** and regeneration of genetically modified woody plants
IN Flinn, Barry; Cheah, Kheng Tuan
PA Can.
SO U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. 6,255,559.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002016981	A1	20020207	US 2001-813519	20010320
US 6255559	B1	20010703	US 1998-153320	19980915
WO 2000015813	A1	20000323	WO 1999-NZ155	19990915
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
ZA 200101818	A	20010927	ZA 2001-1818	19990915
PRAI US 1998-153320	A2	19980915		
WO 1999-NZ155	W	19990915		
US 1999-151106P	P	19990827		

L11 ANSWER 33 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:977962 CAPLUS
DN 138:36240
TI Improved efficiency of regeneration of **transgenic** plants using meristematic or nodal tissue transformed with Agrobacterium
IN Goldman, Stephen L.; Rudrabhatla, Sairam V.
PA University of Toledo, USA
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002102979	A2	20021227	WO 2002-US18966	20020614
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI US 2001-298542P	P	20010615		
US 2002-356563P	P	20020211		

L11 ANSWER 36 OF 143 USPATFULL on STN
AN 2002:337458 USPATFULL
TI Recovering cryopreserved conifer embryogenic cultures
IN Becwar, Michael Ryan, Summerville, SC, UNITED STATES

Krueger, Sharon Anne, Summerville, SC, UNITED STATES
PI US 2002192818 A1 20021219
AI US 2000-573160 A1 20000519 (9)
PRAI US 1999-136000P 19990525 (60)
DT Utility
FS APPLICATION
LREP Daniel B Reece IV, Westvaco Corporation, 5255 Virginia Avenue, Post Office Box 118005, Charleston, SC, 29423-8005
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1091

=> d l11 41-50 ti

L11 ANSWER 41 OF 143 USPATFULL on STN
TI Novel constructs and their use in metabolic pathway engineering

L11 ANSWER 42 OF 143 USPATFULL on STN
TI Particle-mediated conifer **transformation**

L11 ANSWER 43 OF 143 USPATFULL on STN
TI Dwf5 mutants

L11 ANSWER 44 OF 143 USPATFULL on STN
TI Nucleic acid sequences to proteins involved in isoprenoid synthesis

L11 ANSWER 45 OF 143 USPATFULL on STN
TI Enhanced **transformation** and regeneration of transformed embryogenic **pine** tissue

L11 ANSWER 46 OF 143 USPATFULL on STN
TI Use of membrane supports in plant tissue culture processes

L11 ANSWER 47 OF 143 USPATFULL on STN
TI Enhanced selection of genetically modified **pine** embryogenic tissue

L11 ANSWER 48 OF 143 USPATFULL on STN
TI Production of syringyl lignin in gymnosperms

L11 ANSWER 49 OF 143 USPATFULL on STN
TI Dwf7 mutants

L11 ANSWER 50 OF 143 USPATFULL on STN
TI Nucleic acid sequences encoding beta-ketoacyl-ACP synthase and uses thereof

=> d l11 42,45,47,48 bib

L11 ANSWER 42 OF 143 USPATFULL on STN
AN 2002:237196 USPATFULL
TI Particle-mediated conifer **transformation**
IN Kodrzycki, Robert John, Summerville, SC, UNITED STATES
Becwar, Michael Ryan, Summerville, SC, UNITED STATES
Connett-Porceddu, Marie Bernice, Summerville, SC, UNITED STATES
Schwuchow, Sarah G., Hollywood, SC, UNITED STATES
PI US 2002129405 A1 20020912
AI US 2001-29360 A1 20011220 (10)
RLI Continuation-in-part of Ser. No. US 1999-318136, filed on 25 May 1999, PENDING
PRAI US 1998-87966P 19980604 (60)
DT Utility

FS APPLICATION
LREP Daniel B. Reece IV, 5255 Virginia Avenue, Post Office Box 118005, Charleston, SC, 29423-8005
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 1 Drawing Page(s)
LN.CNT 1974

L11 ANSWER 45 OF 143 USPATFULL on STN
AN 2002:187157 USPATFULL
TI Enhanced **transformation** and regeneration of transformed embryogenic **pine** tissue
IN Connett-Porceddu, Marie B., Summerville, SC, UNITED STATES
Gladfelter, Heather J., North Charleston, SC, UNITED STATES
Gulledge, Jon E., Goose Creek, SC, UNITED STATES
McCormack, Ryan R., Ithaca, NY, UNITED STATES
PA Westvaco Corporation, Stamford, CT, 06905 (U.S. corporation)
PI US 2002100083 A1 20020725
AI US 2001-973088 A1 20011010 (9)
PRAI US 2001-297267P 20010612 (60)
US 2000-239143P 20001010 (60)
DT Utility
FS APPLICATION
LREP ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET, N.W., SUITE 800, WASHINGTON, DC, 20005
CLMN Number of Claims: 81
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2709

L11 ANSWER 47 OF 143 USPATFULL on STN
AN 2002:158881 USPATFULL
TI Enhanced selection of genetically modified **pine** embryogenic tissue
IN Connett-Porceddu, Marie B., Summerville, SC, UNITED STATES
Gulledge, Jon E., Goose Creek, SC, UNITED STATES
PI US 2002083495 A1 20020627
AI US 2001-973089 A1 20011010 (9)
PRAI US 2001-297267P 20010612 (60)
US 2000-239143P 20001010 (60)
DT Utility
FS APPLICATION
LREP ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET, N.W., SUITE 800, WASHINGTON, DC, 20005
CLMN Number of Claims: 55
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1574

L11 ANSWER 48 OF 143 USPATFULL on STN
AN 2002:150314 USPATFULL
TI Production of syringyl lignin in gymnosperms
IN Chiang, Vincent L., Hancock, MI, UNITED STATES
Carraway, Daniel T., Bainbridge, GA, UNITED STATES
Smeltzer, Richard H., Tallahassee, FL, UNITED STATES
PI US 2002078477 A1 20020620
AI US 2001-796256 A1 20010228 (9)
RLI Division of Ser. No. US 1997-991677, filed on 16 Dec 1997, GRANTED, Pat. No. US 6252135
PRAI US 1996-33381P 19961216 (60)
DT Utility
FS APPLICATION
LREP LUEDEKA NEELY & GRAHAM, P.C., P O BOX 1871, KNOXVILLE, TN, 37901-1871
CLMN Number of Claims: 45
ECL Exemplary Claim: 1

DRWN 33 Drawing Page(s)
LN.CNT 1783
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d l11 51-60 ti

L11 ANSWER 51 OF 143 USPATFULL on STN
TI Method for the **transformation** of plant cell plastids

L11 ANSWER 52 OF 143 USPATFULL on STN
TI Evolution of plant disease response plant pathways to enable the development of based biological sensors and to develop novel disease resistance strategies

L11 ANSWER 53 OF 143 USPATFULL on STN
TI Compositions affecting programmed cell death and their use in the modification of forestry plant development

L11 ANSWER 54 OF 143 USPATFULL on STN
TI Plants and plant cells **transformation** to express an AMPA-N-acetyltransferase

L11 ANSWER 55 OF 143 USPATFULL on STN
TI Materials and methods for the modification of plant lignin content

L11 ANSWER 56 OF 143 USPATFULL on STN
TI Method for achieving site specific integration of exogenous DNA delivered by non-biological means to plant cells

L11 ANSWER 57 OF 143 USPATFULL on STN
TI Plant and viral promoters

L11 ANSWER 58 OF 143 USPATFULL on STN
TI Compositions isolated from plant cells and their use in the modification

L11 ANSWER 59 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 9
TI Isolation and characterization of a **Pinus** radiata lignin biosynthesis-related O-methyltransferase promoter.

L11 ANSWER 60 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 10
TI Towards genetic engineering of maritime **pine** (**Pinus** pinaster Ait.).

=> d l11 61-70 ti

L11 ANSWER 61 OF 143 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Stable **transformation** of **Pinus** radiata embryogenic tissue by Agrobacterium tumefaciens.

L11 ANSWER 62 OF 143 MEDLINE on STN DUPLICATE 11
TI Growth and differentiation of **transgenic** callus regulated by phytohormones and antibiotics in **transformation** of loblolly **pine**.

L11 ANSWER 63 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 12
TI **Transformation** and regeneration of loblolly **pine**: shoot apex inoculation with Agrobacterium.

L11 ANSWER 64 OF 143 CABA COPYRIGHT 2003 CABI on STN
TI Special Issue on the New Zealand Regional IAPTC & B Conference 2001, Mount Ruapehu, New Zealand, 21-24 February 2001.

L11 ANSWER 65 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 13
TI Genetic **transformation** of **Pinus** taeda by particle bombardment.

L11 ANSWER 66 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 14
TI Agrobacterium-mediated **transformation** of **Pinus** radiata organogenic tissue using vacuum-infiltration.

L11 ANSWER 67 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Gene technologies in **Pinus** radiata and Picea abies: tools for conifer biotechnology in the 21st century

L11 ANSWER 68 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 15
TI Regeneration of **transgenic** loblolly **pine** expressing genes for salt tolerance.

L11 ANSWER 69 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI A method for plant **transformation** based on a pollination-fecundation pathway by using silicon carbide fiber technique

L11 ANSWER 70 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI An Agrobacterium-mediated method of simultaneously introducing several genes into a plant

=> d l11 61,62,63,65,66,67,68 bib

L11 ANSWER 61 OF 143 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:534450 BIOSIS
DN PREV200200534450
TI Stable **transformation** of **Pinus** radiata embryogenic tissue by Agrobacterium tumefaciens.
AU Cerda, Francisca; Aquea, Felipe; Gebauer, Marlene; Medina, Consuelo; Arce-Johnson, Patricio [Reprint author]
CS Departamento de Genetica Molecular y Microbiologia, Facultad de Ciencias Biologicas, Pontificia Universidad Catolica de Chile, P.O. Box 114-D, Santiago, Chile
parce@genes.bio.puc.cl
SO Plant Cell Tissue and Organ Culture, (September, 2002) Vol. 70, No. 3, pp. 251-257. print.
CODEN: PTCEDJ. ISSN: 0167-6857.
DT Article
LA English
ED Entered STN: 16 Oct 2002
Last Updated on STN: 16 Oct 2002

L11 ANSWER 62 OF 143 MEDLINE on STN DUPLICATE 11
AN 2002170462 MEDLINE
DN 21900037 PubMed ID: 11902001
TI Growth and differentiation of **transgenic** callus regulated by phytohormones and antibiotics in **transformation** of loblolly **pine**.
AU Tang Wei; Luo Xiao-Yan; Samuels Vanessa
CS Forest Biotechnology Group, North Carolina State University, Centennial Campus, P. O. Box 7247, Raleigh, NC 27695-7247, USA.. wtang@unity.ncsu.edu
SO I CHUAN HSUEH PAO. ACTA GENETICA SINICA, (2002 Feb) 29 (2) 166-74.
Journal code: 7900784. ISSN: 0379-4172.

CY China
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200204
ED Entered STN: 20020321
Last Updated on STN: 20020429
Entered Medline: 20020426

L11 ANSWER 63 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 12
AN 2003:7217 AGRICOLA
DN IND23301160
TI **Transformation** and regeneration of loblolly **pine**: shoot apex inoculation with Agrobacterium.
AU Gould, J.H.; Zhou, Y.X.; Padmanabhan, V.; Magallanes-Cedeno, M.E.; Newton, R.J.
AV DNAL (QK981.4.M63)
SO Molecular breeding : new strategies in plant improvement, 2002. Vol. 10, No. 3. p. 131-141
Publisher: Dordrecht ; Boston : Kluwer Academic Publishers, c1995-
CODEN: MOBRFL; ISSN: 1380-3743
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L11 ANSWER 65 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 13
AN 2002:203144 CABA
DN 20023149167
TI Genetic **transformation** of **Pinus** taeda by particle bombardment
AU Tang, W.; Samuels, V.
CS Centennial Campus, Forest Biotechnology Group, North Carolina State University, P.O. Box 7247, Raleigh, NC 27695-7247, USA.
SO Journal of Forestry Research, (2002) Vol. 13, No. 2, pp. 91-97. 28 ref.
Publisher: North East Forestry University. Harbin
ISSN: 1007-662X
CY China
DT Journal
LA English
SL Chinese

L11 ANSWER 66 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 14
AN 2003:43799 AGRICOLA
DN IND23337807
TI Agrobacterium-mediated **transformation** of **Pinus** radiata organogenic tissue using vacuum-infiltration.
AU Charity, J.A.; Holland, L.; Donaldson, S.S.; Grace, L.; Walter, C.
AV DNAL (QK725.P53)
SO Plant cell, tissue and organ culture, July 2002. Vol. 70 No. 1. p. 51-69
Publisher: Dordrecht, The Netherlands : Kluwer Academic Publishers.
CODEN: PTCEDJ; ISSN: 0167-6857
NTE In the special issue: New Zealand Regional IAPTC & B Conference 2001 / edited by J.F. Seelye, G.K. Burge, E.R. Morgan and G.J.M. de Klerk. Proceedings of a conference held February 21-24, 2001, Mount Ruapehu, New Zealand.
Includes references
CY Netherlands

DT Article
FS Non-U.S. Imprint other than FAO
LA English

L11 ANSWER 67 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:482134 CAPLUS
DN 138:83833
TI Gene technologies in **Pinus** radiata and Picea abies: tools for conifer biotechnology in the 21st century
AU Walter, Christian; Charity, Julia; Grace, Lynette; Hoefig, Kai; Moeller, Ralf; Wagner, Armin
CS New Zealand Forest Research Institute Ltd., Rotorua, N. Z.
SO Plant Cell, Tissue and Organ Culture (2002), 70(1), 3-12
CODEN: PTCEDJ; ISSN: 0167-6857
PB Kluwer Academic Publishers
DT Journal; General Review
LA English
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 68 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 15
AN 2002:127220 CABA
DN 20023062713
TI Regeneration of **transgenic** loblolly **pine** expressing genes for salt tolerance
AU Tang, W.
CS Forest Biotechnology Group, North Carolina State University, Centennial Campus, P.O.Box 7247, Raleigh, NC 27695-7247, USA.
SO Journal of Forestry Research, (2002) Vol. 13, No. 1, pp. 1-6. 26 ref.
ISSN: 1007-662X
DT Journal
LA English

=> d l11 71-80 ti

L11 ANSWER 71 OF 143 USPATFULL on STN
TI Vectors containing nucleic acids coding for Arabidopsis thaliana endo-1,4-.beta.-glucanase secretion signal peptide

L11 ANSWER 72 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

L11 ANSWER 73 OF 143 USPATFULL on STN
TI Methods for producing genetically modified plants, genetically modified plants, plant materials and plant products produced thereby

L11 ANSWER 74 OF 143 USPATFULL on STN
TI Production of syringyl lignin in gymnosperms

L11 ANSWER 75 OF 143 USPATFULL on STN
TI Transcription factor and method for regulation of seed development, quality and stress-tolerance

L11 ANSWER 76 OF 143 USPATFULL on STN
TI Method of making pathogen-resistant plants by **transformation** with a fatty acid desaturase gene

L11 ANSWER 77 OF 143 USPATFULL on STN
TI Materials and methods for the modification of plant lignin content

L11 ANSWER 78 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

L11 ANSWER 79 OF 143 USPATFULL on STN

TI Molecular methods of hybrid seed production

L11 ANSWER 80 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

=> d l11 81-90 ti

L11 ANSWER 81 OF 143 USPATFULL on STN
TI **Transgenic** plants of altered morphology

L11 ANSWER 82 OF 143 MEDLINE on STN DUPLICATE 16
TI Regeneration of **transgenic** loblolly **pine** (
Pinus taeda L.) from zygotic embryos transformed with
Agrobacterium tumefaciens.

L11 ANSWER 83 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 17
TI The promoter of a cytosolic glutamine synthetase gene from the conifer **Pinus** sylvestris is active in cotyledons of germinating seeds and light-regulated in **transgenic** Arabidopsis thaliana.

L11 ANSWER 84 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 18
TI Conifer genetic engineering: **transgenic Pinus** radiata (D. Don) and Picea abies (Karst) plants are resistant to the herbicide Buster.

L11 ANSWER 85 OF 143 CABA COPYRIGHT 2003 CABI on STN
TI Conifer genetic engineering: particle bombardment and Agrobacterium-mediated gene transfer and its application in future forests.

L11 ANSWER 86 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Genetic engineering of **Pinus** radiata and Picea abies, production of **transgenic** plants and gene expression studies

L11 ANSWER 87 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 19
TI Evaluation of promoters and visual markers for **transformation** of eastern white **pine**.

L11 ANSWER 88 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Transcription factor cDNAs and their encoded proteins from eucalyptus and **pine** and their uses for the modification of gene transcription

L11 ANSWER 89 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Nucleic acids from Eucalyptus grandis and **Pinus** radiata encoding proteins with homology to cell signaling proteins and their use in the modification of plant cell signaling

L11 ANSWER 90 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Poplar trees containing a constitutively expressed **pine** glutamine synthetase transgene for improved nitrogen metabolism

=> d l11 82,84,85,86,87 bib

L11 ANSWER 82 OF 143 MEDLINE on STN DUPLICATE 16
AN 2001675826 MEDLINE
DN 21578744 PubMed ID: 11722135
TI Regeneration of **transgenic** loblolly **pine** (
Pinus taeda L.) from zygotic embryos transformed with

Agrobacterium tumefaciens.
AU Tang W; Sederoff R; Whetten R
CS Department of Forestry, North Carolina State University, Raleigh 27695-7247, USA.
SO PLANTA, (2001 Oct) 213 (6) 981-9.
Journal code: 1250576. ISSN: 0032-0935.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200203
ED Entered STN: 20011128
Last Updated on STN: 20020403
Entered Medline: 20020328

L11 ANSWER 84 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 18
AN 2001:57802 AGRICOLA
DN IND23217142
TI Conifer genetic engineering: **transgenic Pinus** radiata (D. Don) and Picea abies (Karst) plants are resistant to the herbicide Buster.
AU Bishop-Hurley, S.L.; Zabkiewicz, R.J.; Grace, L.; Gardner, R.C.; Wagner, A.; Walter, C.
AV DNAL (QK725.P54)
SO Plant cell reports, Mar 2001. Vol. 20, No. 3. p. 235-243
Publisher: Berlin : Springer-Verlag.
CODEN: PCRPD8; ISSN: 0721-7714
NTE Includes references
CY Germany
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L11 ANSWER 85 OF 143 CABA COPYRIGHT 2003 CABI on STN
AN 2002:63601 CABA
DN 20023006170
TI Conifer genetic engineering: particle bombardment and Agrobacterium-mediated gene transfer and its application in future forests
AU Tang, W.
CS North Carolina State University, Forest Biotechnology Group, Centennial Campus, P.O.Box 7247, Raleigh, NC 27695-7247, USA.
SO Journal of Forestry Research, (2001) Vol. 12, No. 4, pp. 220-228. many ref.
ISSN: 1007-662X
DT Journal
LA English

L11 ANSWER 86 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:485807 CAPLUS
DN 137:164210
TI Genetic engineering of **Pinus** radiata and Picea abies, production of **transgenic** plants and gene expression studies
AU Walter, Christian; Bishop-Hurley, Sharon; Charity, Julia; Find, Jens; Grace, Lynette; Hofig, Kai; Holland, Lyn; Moller, Ralf; Moody, Judy; Wagner, Armin; Walden, Adrian
CS New Zealand Forest Research Institute Ltd, Rotorua, N. Z.
SO Progress in Biotechnology (2001), 18(Molecular Breeding of Woody Plants), 211-222
CODEN: PBITE3; ISSN: 0921-0423
PB Elsevier Science B.V.
DT Journal; General Review
LA English

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 87 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 19
AN 2001:75268 AGRICOLA
DN IND23232664
TI Evaluation of promoters and visual markers for **transformation** of eastern white **pine**.
AU Zipf, A.; Diner, A.M.; Ward, R.; Bharara, S.; Brown, G. Jr; Nagmani, R.; Pareek, L.K.; Sharma, G.C.
AV DNAL (SD409.N48)
SO New forests, Jan 2001. Vol. 21, No. 1. p. 45-58
Publisher: Dordrecht : Kluwer Academic Publishers.
ISSN: 0169-4286
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

=> d l11 91-100 ti

L11 ANSWER 91 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

L11 ANSWER 92 OF 143 USPATFULL on STN
TI Caffeoyl-coa 3-O-Methyltransferase genes from parsley

L11 ANSWER 93 OF 143 USPATFULL on STN
TI Method for achieving integration of exogenous DNA delivered by non-biological means to plant cells

L11 ANSWER 94 OF 143 USPATFULL on STN
TI Stilbene synthase gene

L11 ANSWER 95 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

L11 ANSWER 96 OF 143 CABA COPYRIGHT 2003 CABI on STN
TI Genetic **transformation** of loblolly **pine** using mature zygotic embryo explants by Agrobacterium tumefaciens.

L11 ANSWER 97 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Factors involved in Agrobacterium tumefaciens-mediated gene transfer into **Pinus** nigra Arn. ssp. salzmannii (Dunal) Franco

L11 ANSWER 98 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Genetic **transformation** of **Pinus** radiata

L11 ANSWER 99 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Expression of genes for .beta.-glucuronidase and luciferase in three species of Japanese conifer (**Pinus** thunbergii, P. densiflora and Cryptomeria japonica) after transfer of DNA by microprojectile bombardment

L11 ANSWER 100 OF 143 USPATFULL on STN
TI Arabidopsis thaliana endo-1,4-.beta.-glucanase gene and promoter

=> d l11 96,97,98,99 bib

L11 ANSWER 96 OF 143 CABA COPYRIGHT 2003 CABI on STN

AN 2001:43467 CABA
DN 20013002016
TI Genetic **transformation** of loblolly **pine** using mature zygotic embryo explants by Agrobacterium tumefaciens
AU Tang Wei; Tang, W.
CS Forest Biotechnology Group, Department of Forestry, North Carolina State University, Raleigh, NC 27695-7247, USA.
SO Journal of Forestry Research, (2000) Vol. 11, No. 4, pp. 215-222. 36 ref.
ISSN: 1007-662X
DT Journal
LA English

L11 ANSWER 97 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:717321 CAPLUS
DN 135:29585
TI Factors involved in Agrobacterium tumefaciens-mediated gene transfer into **Pinus** nigra Arn. ssp. salzmannii (Dunal) Franco
AU Lopez, Marian; Humara, Jaime M.; Rodriguez, Roberto; Ordas, Ricardo J.
CS Lab. Fisioloia Vegetal, Dept. Biologia de Organismos y Sistemas, Ftad. Biologia, C/Catedratico Rodrigo Uria Univ. Oviedo, Oviedo, E-33071, Spain
SO Euphytica (2000), 114(3), 195-203
CODEN: EUPHAA; ISSN: 0014-2336
PB Kluwer Academic Publishers
DT Journal
LA English
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 98 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:32710 CAPLUS
DN 133:54145
TI Genetic **transformation** of **Pinus** radiata
AU Walter, C.; Smith, D. R.
CS New Zealand Forest Research Institute Limited, Rotorua, N. Z.
SO Biotechnology in Agriculture and Forestry (2000), 44(Transgenic Trees), 193-211
CODEN: BAFOEG; ISSN: 0934-943X
PB Springer-Verlag
DT Journal; General Review
LA English
RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 99 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:167439 CAPLUS
DN 133:100237
TI Expression of genes for .beta.-glucuronidase and luciferase in three species of Japanese conifer (**Pinus** thunbergii, P. densiflora and Cryptomeria japonica) after transfer of DNA by microprojectile bombardment
AU Mohri, Takeshi; Igasaki, Tomohiro; Sato, Toru; Shinohara, Kenji
CS Mol. Cell Biol. Sect., Bio-Resour. Technol. Div., For. For. Prod. Res. Inst., Ibaraki, 35-8587, Japan
SO Plant Biotechnology (Tokyo) (2000), 17(1), 49-54, 1 plate
CODEN: PLBIF6; ISSN: 1342-4580
PB Japanese Society for Plant Cell and Molecular Biology
DT Journal
LA English

=> d l11 101-110 ti

L11 ANSWER 101 OF 143 USPATFULL on STN
TI Stilbene synthase gene

L11 ANSWER 102 OF 143 USPATFULL on STN

TI Pinosylvine synthase genes

L11 ANSWER 103 OF 143 USPATFULL on STN
TI Coniferin beta-glucosidase cDNA for modifying lignin content in plants

L11 ANSWER 104 OF 143 USPATFULL on STN
TI Virus-resistant **transgenic** plants comprising cells transformed with a polynucleotide encoding a potyviridae P1 protein or P1 protein fragment

L11 ANSWER 105 OF 143 USPATFULL on STN
TI Materials and methods for the modification of plant lignin content

L11 ANSWER 106 OF 143 USPATFULL on STN
TI KYRT1, a disarmed version of a highly tumorigenic Agrobacterium tumefaciens strain identified as Chry5

L11 ANSWER 107 OF 143 USPATFULL on STN
TI Plants in which the expression of S-adenosylhomocysteine hydrolase gene is inhibited

L11 ANSWER 108 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 20
TI Green fluorescent protein as a tool for monitoring transgene expression in forest tree species.

L11 ANSWER 109 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 21
TI Stable genetic **transformation** of white **pine** (**Pinus** strobus L.) after cocultivation of embryogenic tissues with Agrobacterium tumefaciens.

L11 ANSWER 110 OF 143 MEDLINE on STN DUPLICATE 22
TI High-efficiency Agrobacterium-mediated **transformation** of Norway spruce (Picea abies) and loblolly **pine** (**Pinus** taeda).

=> d l11 109,110 bib

L11 ANSWER 109 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 21
AN 2000:6303 AGRICOLA
DN IND22019170
TI Stable genetic **transformation** of white **pine** (**Pinus** strobus L.) after cocultivation of embryogenic tissues with Agrobacterium tumefaciens.
AU Levee, V.; Garin, E.; Klimaszewska, K.; Seguin, A.
CS Canadian Forest Service, Sainte-Foy, Quebec, Canada.
AV DNAL (QK981.4.M63)
SO Molecular breeding : new strategies in plant improvement, 1999. Vol. 5, No. 5. p. 429-440
Publisher: Dordrecht ; Boston : Kluwer Academic Publishers, c1995-
CODEN: MOBRFL; ISSN: 1380-3743
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L11 ANSWER 110 OF 143 MEDLINE on STN DUPLICATE 22
AN 1999190591 MEDLINE
DN 99190591 PubMed ID: 10092170
TI High-efficiency Agrobacterium-mediated **transformation** of Norway spruce (Picea abies) and loblolly **pine** (**Pinus** taeda).
AU Wenck A R; Quinn M; Whetten R W; Pullman G; Sederoff R
CS Forest Biotechnology Group, North Carolina State University, Raleigh 27695, USA.
SO PLANT MOLECULAR BIOLOGY, (1999 Feb) 39 (3) 407-16.
Journal code: 9106343. ISSN: 0167-4412.
(Investigators: Brown C S, NC St U, Raleigh)
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Space Life Sciences
EM 199904
ED Entered STN: 19990426
Last Updated on STN: 20020216
Entered Medline: 19990413

=> d l11 111-120 ti

L11 ANSWER 111 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 23
TI The toxicity of antibiotics and herbicides on in vitro adventitious shoot formation on **Pinus** pinea L. cotyledons.

L11 ANSWER 112 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
TI Transient expression of the uidA gene in **Pinus** pinea cotyledons: a study of heterologous promoter sequences.

L11 ANSWER 113 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
TI Agrobacterium tumefaciens-mediated **transformation** of **Pinus** pinea L. cotyledons: an assessment of factor influencing the efficiency of uidA gene transfer.

L11 ANSWER 114 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 24
TI Expression of a conifer glutamine synthetase gene in **transgenic** poplar.

L11 ANSWER 115 OF 143 CABA COPYRIGHT 2003 CABI on STN
TI Transient expression of GUS in bombarded embryogenic longleaf, loblolly, and eastern white **pine**.

L11 ANSWER 116 OF 143 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
TI Towards genetic manipulation of silver birch (Betula pendula) and Scots **pine** (**Pinus** sylvestris).

L11 ANSWER 117 OF 143 USPATFULL on STN
TI Materials and method for the modification of plant lignin content

L11 ANSWER 118 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

L11 ANSWER 119 OF 143 USPATFULL on STN
TI Mutant mouse lacking the expression of interferon regulatory factor 1

(IRF-1)

L11 ANSWER 120 OF 143 USPATFULL on STN
TI Caffeoyl-CoA 3-O-methyltransferase genes

=> d l11 116 bib

L11 ANSWER 116 OF 143 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:41032 BIOSIS
DN PREV200100041032
TI Towards genetic manipulation of silver birch (Betula pendula) and Scots **pine** (**Pinus** sylvestris).
AU Keinonen, Kaija [Reprint author]
CS Department of Biology, University of Joensuu, FIN-80101, Joensuu, Finland
SO Joensuun Yliopiston Luonnontieteellisia Julkaisuja, (1999) No. 59, pp. 1-54. print.
ISSN: 0781-0342.
DT Article
LA English
ED Entered STN: 17 Jan 2001
Last Updated on STN: 12 Feb 2002

=> d l11 121-130 ti

L11 ANSWER 121 OF 143 USPATFULL on STN
TI Molecular methods of hybrid seed production

L11 ANSWER 122 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 25
TI Transgene expression in regenerating cotyledons and embryogenic cultures of Scots **pine**.

L11 ANSWER 123 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 26
TI Stable **transformation** and regeneration of **transgenic** plants of **Pinus** radiata D. Don.

L11 ANSWER 124 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Method for stable **transformation** of undifferentiated conifer cells for production of **transgenic** conifers

L11 ANSWER 125 OF 143 USPATFULL on STN
TI Stilbene synthase gene

L11 ANSWER 126 OF 143 USPATFULL on STN
TI Mouse lacking the expression of interferon regulatory factor 2 (IRF-2)

L11 ANSWER 127 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 27
TI Resistance of cotton with delta-endotoxin genes from Bacillus thuringiensis var. kurstaki on selected lepidopteran insects.

L11 ANSWER 128 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Genetic engineering as a new tool in commercial forestry: transfer and expression of foreign genes in **pinus** species

L11 ANSWER 129 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN

TI **Transformation** and gene expression in **Pinus** radiata

L11 ANSWER 130 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 28
TI **Transformation** of **Pinus** radiata based on selection with hygromycin B.

=> d l11 123,124,128,129,130 bib

L11 ANSWER 123 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 26
AN 1999:3328 AGRICOLA
DN IND21813785
TI Stable **transformation** and regeneration of **transgenic** plants of **Pinus** radiata D. Don.
AU Walter, C.; Grace, L.J.; Wagner, A.; White, D.W.R.; Walden, A.R.; Donaldson, S.S.; Hinton, H.; Gardner, R.C.; Smith, D.R.
CS Forest Research Institute Ltd., Sala St. Rotorua, New Zealand.
AV DNAL (QK725.P54)
SO Plant cell reports, Apr 1998. Vol. 17, No. 6/7. p. 460-468
Publisher: Berlin, W. Ger. : Springer International.
CODEN: PCRPD8; ISSN: 0721-7714
NTE Includes references
CY Germany
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L11 ANSWER 124 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1997:155135 CAPLUS
DN 126:153656
TI Method for stable **transformation** of undifferentiated conifer cells for production of **transgenic** conifers
IN Walter, Christian; Smith, Dale Raymond
PA New Zealand Forest Research Institute Limited, N. Z.; Walter, Christian; Smith, Dale Raymond
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9701641	A1	19970116	WO 1996-NZ62	19960625
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9661417	A1	19970130	AU 1996-61417	19960625
PRAI	NZ 1995-272442	A	19950626		
	US 1995-547975	A	19951025		
	WO 1996-NZ62	W	19960625		

L11 ANSWER 128 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:390935 CAPLUS
DN 129:171134
TI Genetic engineering as a new tool in commercial forestry: transfer and expression of foreign genes in **pinus** species
AU Walter, C.; Mellerowicz, E.; Donaldson, S.; Grace, L.; Hinton, H.; Keith, A.; Moody, J.; Narayan, R.; Walden, A.; Wang, D.; Walter, E.; Wagner, A.
CS New Zealand Forest Research Institute (NZFRI), Rotorua, N. Z.

SO Biological Sciences Symposium, San Francisco, Oct. 19-23, 1997 (1997), 497-503 Publisher: TAPPI Press, Atlanta, Ga.
CODEN: 66GVA7
DT Conference
LA English
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 129 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1998:49924 CAPLUS
DN 128:125902
TI **Transformation** and gene expression in **Pinus** radiata
AU Walter, Christian; Carson, Mike; Charity, Julia; Donaldson, Simone; Gardner, Richard; Gemmell, Joan; Grace, Lynette; Holland, Lyn; Mcfetridge, Peter; Menzies, Mike; Wagner, Armin; Walden, Adrian
CS New Zealand Forest Research Institute, Rotorua, N. Z.
SO FRI Bulletin (1997), 203(IUFRO '97, Genetics of Radiata Pine), 319-332
CODEN: FRIBEJ; ISSN: 0111-8129
PB New Zealand Forest Research Institute
DT Journal
LA English
RE.CNT 105 THERE ARE 105 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 130 OF 143 CABA COPYRIGHT 2003 CABI on STN DUPLICATE 28
AN 1998:148747 CABA
DN 980613072
TI **Transformation** of **Pinus** radiata based on selection with hygromycin B
AU Wagner, A.; Moody, J.; Grace, L. J.; Walter, C.
CS New Zealand Forest Research Institute Private Bag 3020, Rotorua, New Zealand.
SO New Zealand Journal of Forestry Science, (1997) Vol. 27, No. 3, pp. 280-288. 20 ref.
ISSN: 0048-0134
DT Journal
LA English

=> d l11 131-143 ti

L11 ANSWER 131 OF 143 CABA COPYRIGHT 2003 CABI on STN
TI Auxin-cytokinin interactions in **transgenic** plants expressing the A. tumefaciens ipt, iaaaM and iaaaH genes.

L11 ANSWER 132 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
TI Conifer cell stable **transformation** by insertion of foreign gene, embryo tissue regeneration, and **transgenic** plant production and breeding

L11 ANSWER 133 OF 143 USPATFULL on STN
TI Pinosylvine synthase genes

L11 ANSWER 134 OF 143 USPATFULL on STN
TI Bibenzyl synthase genes

L11 ANSWER 135 OF 143 USPATFULL on STN
TI Virus-resistant **transgenic** plants

L11 ANSWER 136 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
TI Increase of root induction in **Pinus** nigra explants using agrobacteria.

L11 ANSWER 137 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 29
TI Highly efficient **transformation** and regeneration of **transgenic** aspen plants through shoot-bud formation in root culture, and **transformation** of **Pinus** halepensis.

L11 ANSWER 138 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 30
TI Agrobacterium rhizogenes-mediated DNA transfer in **Pinus** halepensis Mill.

L11 ANSWER 139 OF 143 USPATFULL on STN
TI Pinosylvine synthase genes

L11 ANSWER 140 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN
TI Seasonal changes in the transient expression of a 35S CaMV-GUS gene construct introduced into Scots **pine** buds.

L11 ANSWER 141 OF 143 USPATFULL on STN
TI Glyphosate-resistant plants

L11 ANSWER 142 OF 143 USPATFULL on STN
TI Ballistic **transformation** of conifers

L11 ANSWER 143 OF 143 USPATFULL on STN
TI Glyphosate-resistant plants

=> d l11 132,137,142 bib

L11 ANSWER 132 OF 143 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1997:259643 CAPLUS
DN 126:234438
TI Conifer cell stable **transformation** by insertion of foreign gene, embryo tissue regeneration, and **transgenic** plant production and breeding
IN Walter, Christian; Smith, Dale Raymond
PA New Zealand Forest Research Institute Limited, N. Z.
SO Can. Pat. Appl., 34 pp.
CODEN: CPXXEB
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2161391	AA	19961227	CA 1995-2161391	19951025
	ZA 9605369	A	19970123	ZA 1996-5369	19960625
PRAI	NZ 1995-272442	A	19950626		

L11 ANSWER 137 OF 143 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) on STN DUPLICATE 29
AN 1998:72251 AGRICOLA
DN IND21640724
TI Highly efficient **transformation** and regeneration of **transgenic** aspen plants through shoot-bud formation in root

culture, and **transformation** of **Pinus** halepensis.
AU Tzfira, T.; Yarnitzky, O.; Vainstein, A.; Altman, A.
AV DNAL (SD1.F627 v.49)
SO [Somatic cell genetics and molecular genetics of trees], p. 125-130
Publisher: Dordrecht ; Boston : Kluwer Academic, c1996.
Series: Forestry sciences ; v. 49
ISBN: 0792341791 (alk. paper).
NTE Proceedings of a meeting held September 26-30, 1995, Gent, Belgium. Edited by M.R. Ahuja, W. Boergan, and D.B. Neale.
Includes references
CY Netherlands
DT Article; Conference
FS Non-U.S. Imprint other than FAO
LA English

L11 ANSWER 142 OF 143 USPATFULL on STN
AN 92:49002 USPATFULL
TI Ballistic **transformation** of conifers
IN Stomp, Anne-Marie, Raleigh, NC, United States
Weissinger, Arthur K., Raleigh, NC, United States
Sederoff, Ronald R., Raleigh, NC, United States
PA North Carolina State University, Raleigh, NC, United States (U.S. corporation)
PI US 5122466 19920616
AI US 1989-365428 19890613 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Fox, David T.
LREP Bell, Seltzer, Park & Gibson
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 790
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

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L1 18 S (KODRZYCKI, R? OR KODRZYCKI R?)/AU
L2 3 S L1 AND PINUS
L3 2 DUPLICATE REMOVE L2 (1 DUPLICATE REMOVED)
L4 15 S L1 NOT L2
L5 7 DUPLICATE REMOVE L4 (8 DUPLICATES REMOVED)
L6 2339 S TRANSFORMATION AND (PINE OR PINUS)
L7 778 S L6 AND TRANSGENIC
L8 537 S L7 AND (PINE(S)TRANSFORMATION) OR (PINUS(S)TRANSFORMATION)
L9 256 S L8 AND (PINE(S)TRANSGENIC) OR (PINUS(S)TRANSGENIC)
L10 222 S L7 AND ((PINE(S)TRANSFORMATION) OR (PINUS(S)TRANSFORMATION))
L11 143 DUPLICATE REMOVE L10 (79 DUPLICATES REMOVED)

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